

5 May 1994

TCTLH-A
TESTER, LAN CABLE

1. GENERAL. This procurement requires a LAN cable mapper.

2. CLASSIFICATION. Type II, Class 5, Style ES or EP, and Color R in accordance with MIL-T-28800 for shipboard applications.

3. OPERATIONAL REQUIREMENTS. The equipment shall test shielded and unshielded, terminated, twisted pair LAN cables. The equipment shall identify opens, shorts, reverses, split pairs, and crossed pairs in accordance with the following specifications.

3.1 Cable length. The equipment shall be operable on cables up to 122m (400 ft) in length.

3.2 Input connector. RJ-45.

3.3 Input protection. 90 Vrms minimum. A visual overvoltage alarm shall be provided.

3.4 Near-end crosstalk (NEXT). The equipment shall test for and report a split pair when near-end crosstalk exceeds -21 dB. The test signal shall be 10 MHz nominal at 0 dBm nominal.

3.5 Display. A visual display, either LED or LCD, shall provide the operator with cable status information including all the conditions listed in paragraph 3. The equipment shall report the status of up to four twisted pair per cable.

4. GENERAL REQUIREMENTS.

4.1 Power source. MIL-T-28800 dc internal power source requirements are invoked. The batteries shall be of a commercially available type and provide 12 months of operation before replacement. The nominal power source requirements are not invoked.

4.2 Weight. 0.9 kg (2 lb) maximum.

4.3 Lithium batteries. Per MIL-T-28800, lithium batteries are prohibited without prior authorization. A request for approval for the use of lithium batteries, including those encapsulated in integrated circuits, shall be submitted to the procuring activity at the time of submission of proposals. Approval shall apply only to the specific model proposed.

4.4 Transit case. The Style P or S transit case shall provide protection to the cable tester and all accessories. The case shall be in compliance with the transit case requirements set forth in MIL-T-28800.